STROBE Statement—checklist of items that should be included in reports of observational studies

Section/item	Item No	Recommendation	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	Page 3/Line 51	Abstract/Methods
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 3/Line 49-68	Abstract/Methods-resul
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 3/Line 77-Page 4/ line 109	Introduction/Paragraph 1
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 4/Line 110-112	Introduction/Paragraph 2
Methods				
Study design	4	Present key elements of study design early in the paper	Page 5/Line 115-117	Methods/Paragraph 1
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 5/Line114-131	Methods/Paragraph 1
Participants	6	(a) ***Cohort study***—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up ***Case-control study***—Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls ***Cross-sectional study***—Give the eligibility criteria, and the sources and methods of selection of participants	Page 5/Line 121-128	Methods/Paragraph 11
		(b) ***Cohort study***—For matched studies, give matching criteria and number of exposed and unexposed ***Case-control study***—For matched studies, give matching criteria and the number of controls per case	N/A	This is not a matched stuy.
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page 7-8/Line 173-196	Methods/Paragraph 6-9
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	Page 6/Line 156-179	Methods/Paragraph 4-6
Bias	9	Describe any efforts to address potential sources of bias	Page 9/Line 225-227	Methods/Paragraph 12
Study size	10	Explain how the study size was arrived at	N/A	This is a cohort study.
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	N/A	The quantitative variables aren't classified

Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page 8-9/Line 216-230	Methods/Paragraph 12
		(b) Describe any methods used to examine subgroups and interactions	N/A	There was no subgroups
		(c) Explain how missing data were addressed	N/A	There was no missing data.
		(d) ***Cohort study***—If applicable, explain how loss to follow-up was addressed ***Case-control study***—If applicable, explain how matching of cases and controls was addressed ***Cross-sectional study***—If applicable, describe analytical methods taking account of sampling strategy	N/A	There is no loss
		(e) Describe any sensitivity analyses	Page 9/Line 225-227	Methods/Paragraph 12
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	Page 9/Line 233-238	Results/Paragraph 1
		(b) Give reasons for non-participation at each stage	N/A	There is no non-participation at each stage
		(c) Consider use of a flow diagram	Page 20/Line 387-388	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Page 9/line253-267	Results/Paragraph 3
		(b) Indicate number of participants with missing data for each variable of interest	N/A	There is no missing date
		(c) ***Cohort study***—Summarise follow-up time (eg, average and total amount)	Page 10/Line 254	Results/Paragraph 3
Outcome data	15*	***Cohort study***—Report numbers of outcome events or summary measures over time	Page 9/Line 237-238	Results/Paragraph 1
		Case-control study—Report numbers in each exposure category, or summary measures of exposure	N/A	It's a cohort study.
		Cross-sectional study—Report numbers of outcome events or summary measures	N/A	It's a cohort study.
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	Page 10/Line 258-264	Results/Paragraph 3
		(b) Report category boundaries when continuous variables were categorized	N/A	Continuous variables were not categorized
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	N/A	not relevant
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	N/A	There was no other analysesdone
Discussion				
Key results	18	Summarise key results with reference to study objectives	Page 10/Line 269-277	Discussion/Paragraph 1
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Page 13/Line 361-367	Discussion/Paragraph 6

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page 12/Line 334-Page 13/Line 360	Discussion/Paragraph 2-5
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page 14/Line 368-371	Conclusion
Other information				
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	Page 1/Line 25-Page 2/Line 34	Sources of Funding、Conflict of interest

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.

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*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.